

**LINK LATENCY DETERMINATION  
FOR OPTIMAL MOBILE IP RE-REGISTRATION**

**ABSTRACT OF THE DISCLOSURE**

**[0064]** A method and system for link latency determination in a Mobile IP network determine an unloaded network delay; set a current estimated delay; initiate a current round trip estimation process; and set a retry timer. If the retry timer expires before the process completes, the method and system update the predetermined backoff period and repeat the preceding two steps. After re-registration, the method and system reset the current estimated delay time. The link latency determination optimizes the re-registration process between a mobile device and an agent device, thereby enhancing mobile device communications, minimizing network loading, and optimizing network traffic levels.